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DEPLOYMENT OF APP IN IBM CLOUD

DEPLOY IN KUBERNETES CLUSTER

1. Target the IBM Cloud Kubernetes Service region where you want to work.

```
ibmcloud cs region-set us-south
```

2. Set the context for the cluster in your CLI.

a. Get the command to set the environment variable and download the Kubernetes configuration files.

```
ibmcloud cs cluster-config cluster_kunal
```

b. Set the KUBECONFIG environment variable. Copy the output from the previous command and paste it in your terminal. The command output should look similar to the following.

```
> export
KUBECONFIG=/Users/$USER/.bluemix/plugins/container-service/clusters/<
cluster_name >/< cluster_configuration_file.yaml>
```

3. Verify that you can connect to your cluster by listing your worker nodes.

```
kubectl get nodes
```

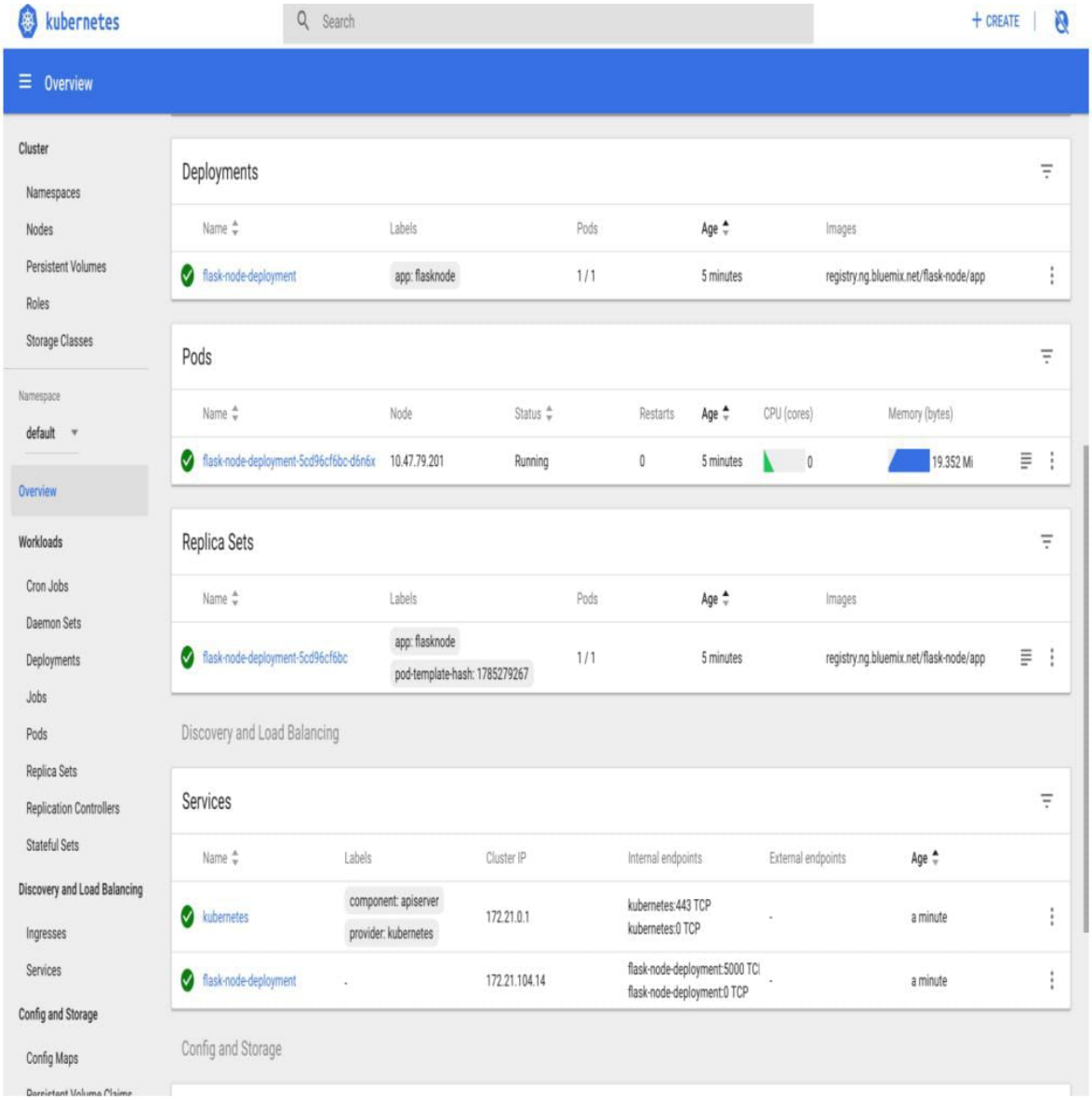
4. Create the deployment.

```
kubectl create -f deployment.yaml
```

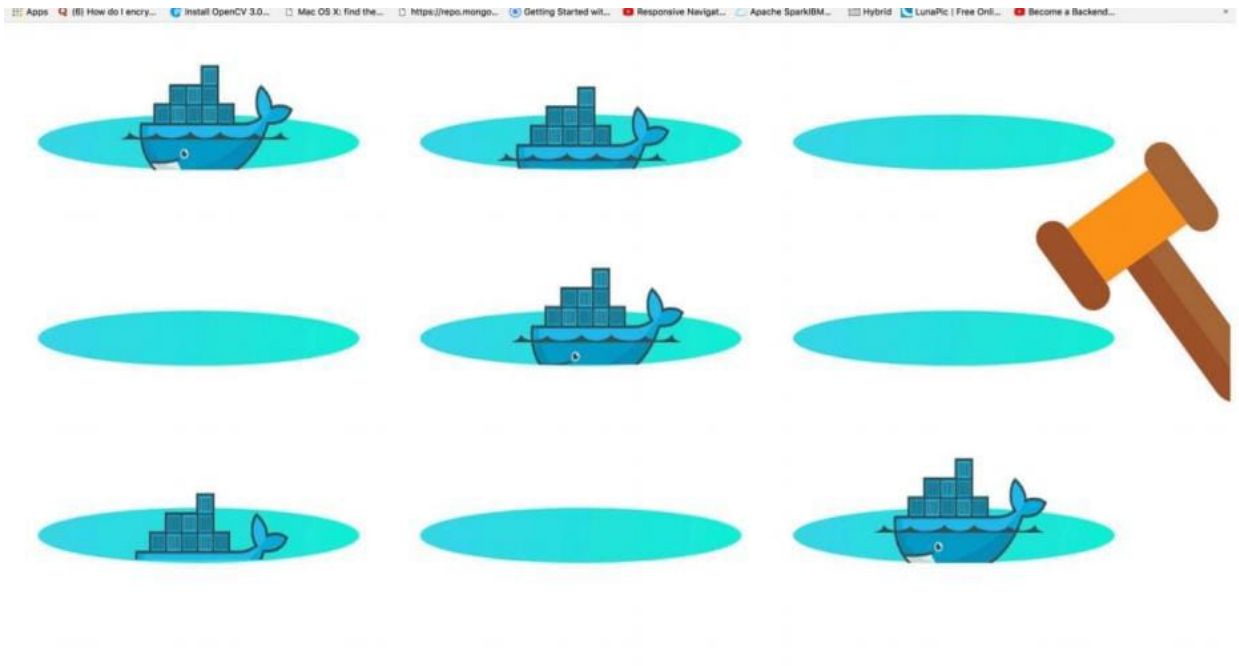
5. Create the service.

```
kubectl create -f service.yaml
```

6. Look at the Kubernetes dashboard from the IBM Kubernetes Service overview page.



7. Finally, go to your browser and ping the Public IP of your worker node



SAMPLE:

```
$ kubectl apply -f ./deploys/k8s-deployment/deployment.yaml
deployment.apps/k8s-nginx-deployment created
```

RUN THE APPLICATION

```
$ kubectl port-forward svc/k8s-nginx-deployment 8080:80
```

VERIFY THE APPLICATION RUNNING IN THE CLUSTER

```
$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
k8s-nginx-deployment-68d8f8f8f4-f4x6x   1/1     Running   0
30s

```

```
$ curl localhost:8080
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial
```